

A2

-- The first column of the table lists the names assigned to the fragments in which the polymorphisms occur. The fragments are all human genomic fragments. The sequence of one allelic form of each of the fragments (arbitrarily referred to as the prototypical or reference form) has been previously published. These sequences are listed at the Whitehead Institute/MIT Center for Genome Research web site (all STS's sequence tag sites); the Stanford Human Genome Center web site (Stanford STS's); and The Institute for Genomic Research web site (TIGR STS's). The web sites also list primers for amplification of the fragments, and the genomic location of the fragments. Some fragments arc expressed sequence tags, and some are random genomic fragments. All information in the web sites concerning the fragments listed in the table is incorporated by reference in its entirety for all purposes. --

A3

In the Claims:

Please cancel claims ~~7, 8, 11, 13, and 15-18~~, add new claims 45-53, and replace the pending claims with the following:

- A4*
1. (Amended) An isolated polynucleotide comprising the polymorphic nucleotide sequence of SEQ ID NO: 509.
 2. The polynucleotide of claim 1, wherein said polynucleotide sequence is DNA.
 3. The polynucleotide of claim 1, wherein said polynucleotide sequence is RNA.
 4. (Amended) The polynucleotide of claim 1, wherein said polynucleotide sequence is between about 10 and about 50 nucleotides in length, and wherein at least 10 contiguous bases include the nucleotide corresponding to position 26 of SEQ ID NO: 509.

5. (Amended) The polynucleotide of claim 1, wherein said polynucleotide sequence is between about 10 and about 40 nucleotides in length, and wherein at least 10 contiguous bases include the nucleotide corresponding to position 26 of SEQ ID NO: 509.
6. (Amended) The polynucleotide of claim 1, wherein said polynucleotide sequence is between about 10 and about 30 nucleotides in length, and wherein at least 10 contiguous bases include the nucleotide corresponding to position 26 of SEQ ID N0: 509.
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7. (Amended) The polynucleotide of claim 1, wherein said polynucleotide is comprised within a nucleic acid encoding a polypeptide homologous to a keratinocyte growth factor.
8. (Amended) The polynucleotide of claim 1, wherein a polymorphic site includes any nucleotide other than the nucleotide listed in Table 1, column 5 for said polymorphic sequence.
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9. (Amended) The polynucleotide of claim 1, wherein a polymorphic site includes the nucleotide listed in Table 1, column 6 for said polymorphic sequence.
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10. (Amended) An isolated allele-specific oligonucleotide that hybridizes to a first polynucleotide at a polymorphic site encompassed therein, wherein the first polynucleotide comprises the polymorphic nucleotide sequence of SEQ ID NO: 509.
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11. (New) The oligonucleotide of claim 14, wherein the oligonucleotide which hybridizes to the polynucleotide comprising the polymorphic nucleotide sequence of SEQ ID NO: 509 identifies a nucleic acid encoding a polypeptide homologous to a keratinocyte growth factor.

46. (New) An isolated polynucleotide comprising a sequence complementary to the polymorphic nucleotide sequence of SEQ ID NO: 509.
47. (New) The polynucleotide of claim 46, wherein said polynucleotide sequence is DNA.
48. (New) The polynucleotide of claim 46, wherein said polynucleotide sequence is RNA.
49. (New) The polynucleotide of claim 46, wherein said polynucleotide is between about 10 and about 50 bases in length.
50. (New) The polynucleotide of claim 46, wherein said polynucleotide is between about 10 and about 40 bases in length.
51. (New) The polynucleotide of claim 46, wherein said polynucleotide is between about 10 and about 30 bases in length.
52. (New) The polynucleotide of claim 46, wherein the complement of a polymorphic site includes the complement of any nucleotide other than the nucleotide listed in Table 1, column 5 for said complementary polymorphic nucleotide sequence.
53. (New) The polynucleotide of claim 46, wherein the complement of a polymorphic site includes the complement of the nucleotide listed in Table 1, column 6 for said complementary polymorphic nucleotide sequence.